Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

- 1. (Currently amended) Method for the conversion of a cytosine base in a nucleic acid to an uracil base comprising
 - a) incubating a solution comprising the nucleic acid for a time period that is not less than 1.5 hours and further is not more than 3.5 hours at a temperature between 70 and 90 °C, wherein the concentration of bisulfite in the solution is between 3 M and 6.25 M and wherein the pH value of the solution is between 5.0 and 6.0 5.25 and 5.75, whereby the nucleic acid is deaminated, and
 - b) incubating the solution comprising the deaminated nucleic acid under alkaline conditions whereby the deaminated nucleic acid is desulfonated.
- 2. (previously amended) Method according to claim 1, wherein in step a) the temperature is between 75 and 85 $^{\circ}$ C.
- 3. (previously amended) Method according to claim 1, wherein the concentration of bisulfite is between 3.2 M and 6 M.
- 4. (cancelled)
- 5. (previously amended) Method according to claim 1, wherein the time period is between 1.75 and 3 hours.
- 6. (previously amended) Method according to-claim 1, wherein the time period is between 2 and 3 hours.
- 7. (previously amended) Method according to claim 1, wherein in step a) the temperature is 80 °C, the concentration of bisulfite is 5 M, the pH value of the solution is 5.5 and the time period is between 2 and 3 hours.